AI ASSIGNMENT

Date_

92:

4	Population	initialization:
_	To aco los	Tolle /cont

$$C_1 = \begin{bmatrix} 1,3,1,2,3,2,1 \end{bmatrix}$$

$$C_2 = \begin{bmatrix} 3,2,2,1,1,3,2 \end{bmatrix}$$

$$C_3 = \begin{bmatrix} 3,3,2,2,1,1,3 \end{bmatrix}$$

$$C_4 = \begin{bmatrix} 1,4,2,3,1,2,2 \end{bmatrix}$$

 $c_5 = \begin{bmatrix} 1, 3, 3, 1, 1, 1, 2 \end{bmatrix}$

	2		~ 1 ~	
-	COA	wate	Fitness:	
		vun-		_

_	2) Walla	c FIDO	: 225					717	
(bonasame	Tak1	Taske	Task3	Tasky	Task S	Task 6	Tashi	
1			8x16=122	4x8=3	1x10=70	6x12=72	3x8=24	9811=99	
_	Cz	45	112	36	84	84	30	102	
	C ₃	पट	118	36	70	84	27	1/7	
_	7-27	50	150	36	91	24	24	1001	
_	Сч	\$50	AND RESIDENCE OF THE PARTY OF T	28	84	89	27	108	
	Cs Gs	60	112	58	70	24	53	117	
	C	90	-						

,	·	
F1	FZ	FS
5+449=19	718=10	846=14
716=13	84449=21	5+3=8
6+3:9	4+7=11	5+0+9=22
5+8+6=19	4+3+9=16	4
5+7+6+3=2	9	8+4=12
6+3=9	5+8+7 = 28	9+9=13

Cz = 499

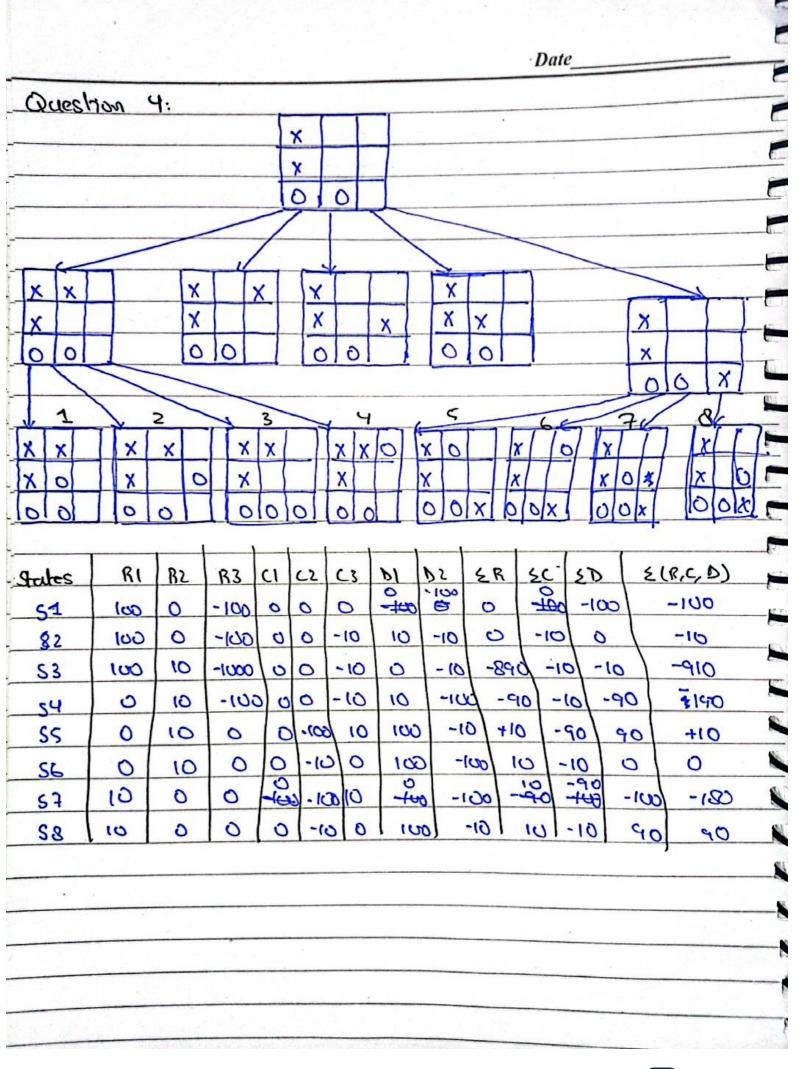
C3 = 587

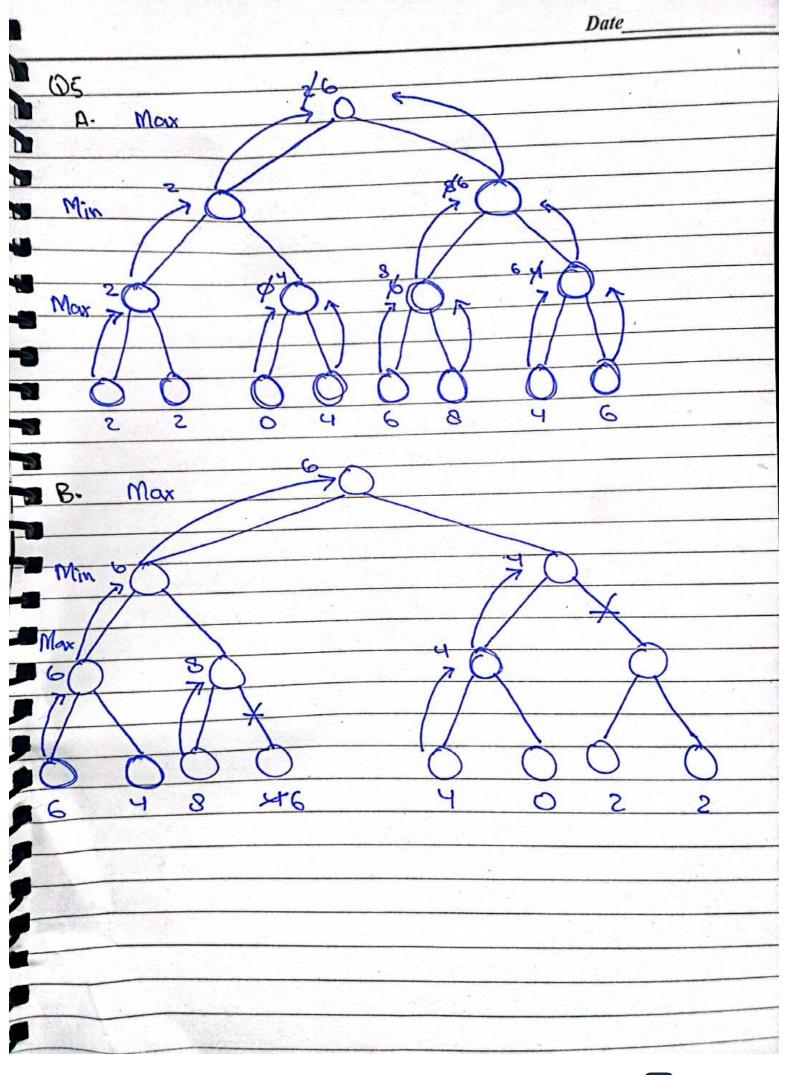
Cy = 513

Cx = 509

G + 498

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3 €	Poalette Wheel Selm	Thon:
	Invese	Probability.
Cı	1/475 = 0.002105	0.005102/0.015003 = 0.1323
Cz	1/499 = 0.00 2004	0.00 5004/0.015003 = 0.1664
C3	0.001937	0.1643
Cy	0.001949	0.1624
CS	0.001965	6.1637
CG	0.002000 0.012003 Total = 0.0102000	0.1673
	lowest cos	ts.
_=)	Crossover:	
	Pair 1:	1 2
	$C_1 = \{1, 3, 1, 2, 3, \dots, 2, $	2, 1] } Offspring 1 = [1,3,2,1,1,3,2] 3,2) Offspring 2 : [3,2,1,2,3,2,1]
	Cez = (3,2,2,1,1, 1, 1)	2157 2 Offeboral 5: [3151/5,315/1]
	C1 = [1,3,1,2,3,2	
	C = [2 2 2 2]	[1,3] $SP_{27-179}3 = [1,3,1,2,1,1,3]$
	Va: 2.	
	c, = (3,2,2/8)1.	32) 7 05 - [222111]
	G6 = [2,2,3]211	$3,2)$ $3 \circ 5 = [3,2,2,1,1,1,3]$ 1,3) $06 = [2,2,3,2,1,3,2]$
=)	Mutabon:	1 2 (10,13,2,1,3,2)
	01 = [13,2,1,1,3,2)
	02 = (3,2,1,2,2,3,	
	03 = [1,1,2,1,3,3	I Emebbed Legipin 1 and 23
	04 = [2,2,3,2,3,2,	1) Tool down I was ?
	05 = [3,2,2,1,1,1,	2)
	06 = (2,2,8,2,1,3,	33





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Q6 (a) 1. Max &: It is an AI- powered IDS which will defend the network from extend affectes. Min: It is the affective and its goal is to breach the rehault using sombus affectes. 2. Max: It uses strategies such as, deploying implementing finewalls, pathing systems.

to minimize the damage caused while mailraining rads. Min: It uses affactes like Brute-Free, Phishing, zero-day exploit to maximize the demage caused to the reducine. Altados like zen-day exploit are probabilistis
with 50% success rate. They introduce
uncertainty and the defender may need to
shift the focus form worst rase to
awage asc based on probability. ვ.__

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Firewall	Patrl System	Ignore Alerb
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